

Claims

1. An improved frame structure of a collapsible treadmill, comprising:

a front frame assembly, having a first end portion and a second end portion opposing to the first end portion;

a rear frame assembly, having a first end portion and a second end portion opposing to the first end portion, in which the first end portion pivots on the second end portion of the front frame assembly;

lifting mechanism, substantially disposed under the front frame assembly, in which the lifting mechanism includes a front leg assembly, a rear leg assembly and a lifting device, wherein the front leg assembly has a first end portion and a second end portion, and the rear leg assembly also has a first end portion and a second end portion, of which the first end portion of the front leg assembly pivots on the second end portion of the front frame assembly, and the first end portion of the rear leg assembly pivots on the first end portion of the front frame assembly;

wherein the front leg assembly and rear leg assembly slidably pivot with each other, and wherein the lifting device pivots on the front frame assembly at an end thereof and pivots on one of the front leg assembly and the rear leg assembly at the other end thereof.

2. The improved frame structure of a collapsible treadmill as claimed in Claim 1, wherein the rear frame assembly comprises two rear frames opposing to each other and the front frame assembly comprises two front frames opposing to each other, of which the rear frames pivot on the front frames.
3. The improved frame structure of a collapsible treadmill as claimed in Claim 2, wherein the front leg assembly of the lifting mechanism includes two front legs opposing to each other and the rear leg assembly of the lifting mechanism includes two rear legs opposing to each other, of which each of the front legs has a rear end pivoting on each of the front frames at a rear end of the front frame, and each of the rear legs has a front end pivoting on each of the front frames at a front end of the front frame, wherein the front legs slidably pivot on the rear legs

rear legs.

4. The improved frame structure of a collapsible treadmill as claimed in Claim 3, wherein each of the front legs is provided with a roller and each of the rear legs defines a sliding space in an interior thereof, so that the roller of each of the front legs is adapted to roll along the space formed in the interior of each of the rear legs.
5. The improved frame structure of a collapsible treadmill as claimed in Claim 4, wherein the lifting device pivots on the front frame assembly at an end thereof and pivots the front leg assembly at the other end thereof.
6. The improved frame structure of a collapsible treadmill as claimed in Claim 5, wherein the front frame assembly further comprises a front transverse frame connected between the two opposing front frames, and wherein the front leg assembly further comprises a front transverse leg connected between the two opposing front legs, that the lifting device pivots on the front transverse frame at one end thereof and pivots on the front transverse leg at the other end thereof.
7. The improved frame structure of a collapsible treadmill as claimed in Claim 6, wherein the lifting device comprises a power device and a lifting shaft, of which the power device is fixed to the front transverse frame, and wherein the lifting shaft is fixed to the power device at one end thereof and is pivoted on the front transverse leg at the other end thereof.
8. The improved frame structure of a collapsible treadmill as claimed in Claim 1, wherein the lifting mechanism further comprises a front leg sliding device and a rear leg sliding device, of which the front leg sliding device is disposed on the second end portion of the front leg assembly, and the rear leg sliding device is disposed on the second end portion of the rear leg assembly.
9. An improved frame structure of a collapsible treadmill, comprising:

a front frame assembly, having a first end portion and a second end portion opposing to the first end portion;

a rear frame assembly, having a first end portion and a second end portion opposing to the first end portion, in which the first end portion pivots on the

second end portion of the front frame assembly;

lifting mechanism, substantially disposed under the front frame assembly, in which the lifting mechanism includes a front leg assembly, a rear leg assembly and a lifting device, wherein the front leg assembly has a first end portion and a second end portion, and the rear leg assembly also has a first end portion and a second end portion, of which the first end portion of the front leg assembly pivots on the second end portion of the front frame assembly, and the first end portion of the rear leg assembly slidably pivots on the first end portion of the front frame assembly;

wherein the front leg assembly and rear leg assembly pivot with each other, and wherein the lifting device pivots on the front frame assembly at an end thereof and pivots on one of the front leg assembly and the rear leg assembly at the other end thereof.

10. The improved frame structure of a collapsible treadmill as claimed in Claim 9, wherein the rear frame assembly comprises two rear frames opposing to each other and the front frame assembly comprises two front frames opposing to each other, of which the rear frames pivot on the front frames.
11. The improved frame structure of a collapsible treadmill as claimed in Claim 10, wherein the front leg assembly of the lifting mechanism includes two front legs opposing to each other and the rear leg assembly of the lifting mechanism includes two rear legs opposing to each other, of which each of the front legs has a rear end pivoting on each of the front frames at a rear end of the front frame, and each of the rear legs has a front end slidably pivoting on each of the front frames at a front end of the front frame, wherein the front legs pivot on the rear legs rear legs.
12. The improved frame structure of a collapsible treadmill as claimed in Claim 11, wherein each of the rear legs is provided with a roller and each of the front frames defines a sliding space in an interior thereof, so that the roller of each of the rear legs is adapted to roll along the space formed in the interior of each of the front frames.
13. The improved frame structure of a collapsible treadmill as claimed in Claim 12, wherein the lifting device pivots on the front frame assembly at an end thereof

and pivots the front leg assembly at the other end thereof.

14. The improved frame structure of a collapsible treadmill as claimed in Claim 13, wherein the front frame assembly further comprises a front transverse frame connected between the two opposing front frames, and wherein the front leg assembly further comprises a front transverse leg connected between the two opposing front legs, that the lifting device pivots on the front transverse frame at one end thereof and pivots on the front transverse leg at the other end thereof.
15. The improved frame structure of a collapsible treadmill as claimed in Claim 14, wherein the lifting device comprises a power device and a lifting shaft, of which the power device is fixed to the front transverse frame, and wherein the lifting shaft is fixed to the power device at one end thereof and is pivoted on the front transverse leg at the other end thereof.
16. The improved frame structure of a collapsible treadmill as claimed in Claim 9, wherein the lifting mechanism further comprises a front leg sliding device and a rear leg sliding device, of which the front leg sliding device is disposed on the second end portion of the front leg assembly, and the rear leg sliding device is disposed on the second end portion of the rear leg assembly.